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## **CLAIM**

1	1. A switching network comprising:				
2	a) a first stage of switches having input lines and output lines and comprising				
3	m (n x k) switches, wherein m is an integer number, n is an integer number				
4	representing the number of input lines and k is an integer number representing the				
5	number of output lines				
6	b) a second stage of switches comprising of m (k' x k') switches, k' is an integer				
7	number representing the number of inputs and outputs				
8	c) a third stage of switches comprising of m (k x n) switches				
9	wherein k' is selected such that $m*Q(k'/m) \ge k$ (where $Q(x/y)$ denotes the quotient of				
0					
1	2. A switching network comprising:				
2	m identical modules, said module further comprising				
3	a) an input stage comprising of a (n x k) switch wherein n is an integer number				
4	representing the number of input lines and k is an integer number representing				
5	the number of output lines				
6	b) a middle stage comprising of a (k' x k') switch, k' is an integer number				
7	representing the number of inputs and outputs				
8	c) an output stage comprising of a (k x n) switch				
9	wherein k, k', and m satisfy m*Q(k'/m)≥ k				
1	3. A method of constructing a switching network comprising:				
2	a) using m identical modules,				
3	b) constructing said module from an input stage comprising of a (n x k) switch, a				
4	middle stage comprising of a (k' x k') switch, an output stage comprising of a				
5	(k x n) switch				
6	c) selecting k' such that $m*Q(k'/m) \ge k$				
1	4. A module comprising:				

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2	a) an input stage comprising of a (n x k) switch, switch wherein n is an	integer		
3	number representing the number of input lines and k is an integer r	ıumber		
4	representing the number of output lines			
5	b) a middle stage comprising of a (k' x k') switch, k' is an integer r	number		
6	representing the number of inputs and outputs			
7	c) an output stage comprising of a (k x n) switch			
8	wherein a switching network can be constructed using m of said modules, where k, k', and m			
9	satisfy $m*Q(k'/m) \ge k$			
	•			
1.	5. A method of constructing a v(k, n, m) switching network for values of m belongi	ng to a		
2	non-empty set <i>M</i> comprising:			
3	a) using m identical modules,			
4	b) constructing said module from an input stage comprising of a (n x k) sw	vitch, a		
5	middle stage comprising of a (k' x k') switch, an output stage comprising	ng of a		
6	(k x n) switch			
7	c) selecting k' such that $m*Q(k'/m) \ge k$ for all values of m belonging to	set .//		